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Application No. 10/628,866

Filed: 7/28/03

TC Art Unit: 3735

Confirmation No.: 3828

AMENDMENT TO THE CLAIMS

1-29 (Cancelled)

30. (Currently Amended) A method of controlling a fluid delivery system based on pH data comprising the steps of:

providing measuring tissue pH data from a ph sensor
positioned within a region of tissue of an organ;

determining if selected tissue pH data falls below a
threshold level indicative of a tissue condition; and

controlling preservation fluid flow rate from an external
source into the organ through one or more of a plurality of
fluid delivery paths in response to the determination
determining step.

31. (Original) The method of Claim 30 further comprising the step of providing a controller connected to the delivery system.

32. (Currently Amended) The method of Claim 30 wherein the step of controlling delivery of preservation fluid to a site further comprises the step of altering the a flow rate of the fluid with a valve.

33. (Original) The method of Claim 30 wherein the step of controlling flow further comprises the step of altering a temperature of a preservation fluid.

34. (Currently Amended) The method of Claim 30 wherein the step

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of controlling flow further comprises the step of altering ~~the~~a site of delivery of the fluid.

35. (Original) The method of Claim 30 wherein the step of controlling flow further comprises the step of directing the solution through a valve.

36. (Currently Amended) The method of Claim 30 wherein the method further comprises the step of displaying changes in a fluid control procedure.

37. (Currently Amended) The method of Claim 30 further comprising ~~providing~~ recording temperature data of the tissue and fluid pressure data.

38-39 (Cancelled)

40. (New) The method of Claim 30 wherein the tissue is myocardial tissue.

41. (New) The method of Claim 30 further comprising contacting the pH electrode to the tissue of a patient with a catheter

42. (New) A method of controlling a fluid delivery system based on pH data comprising the steps of:

measuring tissue pH with a pH sensor positioned within a region of tissue of an organ to provide pH data;

measuring temperature with a temperature sensor in the

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tissue to provide temperature data;

determining if selected tissue pH data falls below a threshold level indicative of a tissue condition; and

controlling a preservation fluid temperature and fluid flow rate from an external source into the organ in response to the temperature data and the determining step with a delivery control system having a plurality of fluid flow paths into the organ.

43. (New) The method of Claim 42 further comprising the step of providing a controller connected to the delivery system.

44. (New) The method of Claim 42 wherein the step of controlling delivery of preservation fluid to a site further comprises the step of altering the flow rate of the fluid.

45. (New) The method of Claim 42 wherein the step of controlling flow further comprises the step of altering a temperature of a preservation fluid.

46. (New) The method of Claim 42 wherein the step of controlling flow further comprises the step of altering the site of delivery of the fluid.

47. (New) The method of Claim 42 wherein the step of controlling flow further comprises the step of directing the solution through a valve.

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48. (New) The method of Claim 42 wherein the method further comprises the step of displaying changes in a procedure.

49. (New) The method of Claim 42 further comprising providing temperature and fluid pressure data.

50. (New) The method of Claim 42 wherein the tissue is myocardial tissue.

51. (New) The method of Claim 42 further comprising contacting the pH electrode to the tissue of a patient with a catheter